

FALSE-COLOR REDUCING DEVICE

ABSTRACT OF THE DISCLOSURE

5

A false-color reducing device comprises a first interpolation processor, a color difference data calculation processor, a second interpolation processor, and a third interpolation processor. The first correlation value calculating processor obtains R plane data in which all the pixels have R data, G plane data in which all the pixels have G data, and B plane data in which all the pixels have B data. The color difference data calculation processor calculates U data and V data (or color difference data) regarding first (R), second (G), and third (B) pixels. The second interpolation processor calculates a mean value of the V data of four pixels adjacent to the first pixel in oblique directions, and sets this mean value as replaced V data for the first pixel. The third interpolation processor calculates a mean value of the U data of four pixels adjacent to the third pixel in oblique directions, and sets this mean value as replacement U data for the third pixel.